

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,048,723 B1
APPLICATION NO. : 09/787498
DATED : May 23, 2006
INVENTOR(S) : Frazier et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page item (57)

Abstract, line 12, change "on" to --one--

Column 7

Line 24, after "The" insert --needle array device 74 can then be disposed in a machined interface structure 76 such as--

Column 8

Line 28, before "to have", remove [to have]

Line 36, change "one dimensional" to --one-dimensional--

Column 9

Equation (2), line 25, change " $\frac{\partial^2 V}{\partial x^2} \cdot \frac{\partial^2 V}{\partial y^2} - \frac{1}{\mu} \nabla p = 0$ " to

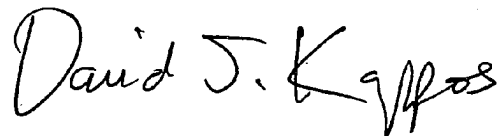
$$-- \frac{\partial^2 V}{\partial x^2} + \frac{\partial^2 V}{\partial y^2} - \frac{1}{\mu} \nabla p = 0 --$$

Column 10

Line 28, change ",", while" to --. While--

Signed and Sealed this

Twenty-fourth Day of November, 2009



David J. Kappos
Director of the United States Patent and Trademark Office